

20 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 5 Watts With Black Aluminum Heatsink Body

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (or attenuate) a known amount. These attenuator pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The SA4017-20 is a 20 dB Fixed Attenuator that operates from DC to 40 GHz and is rated to 5 Watts. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors and is also REACH and RoHS compliant. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
VSWR			1.45:1	
Input Power, CW rated at +25°C, derated linearly to 0W at +125°C			5	Watts
Input Power, Peak 5µs pulse, 1.25% duty cycle			200	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 26.5	26.5 to 40				GHz
VSWR, Max	1.35:1	1.45:1				
Atten Accuracy, Typ	±1	±1.5				dB

Electrical Specification Notes:
 Values at +25°C, sea level.

Mechanical Specifications

Size	
Length	1.4 in [35.56 mm]
Width/Diameter	1.5 in [38.1 mm]
Weight	0.079 lbs [35.83 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

Configuration

Design	Fixed, Bidirectional
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Features:

- Bidirectional
- DC to 40 GHz Frequency Range
- Attenuation 20±1.5 dB
- Max Power 5 Watts (CW)
- VSWR < 1.45:1

Applications:

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems

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Package Style

Connectorized Module

Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Connector Spec.	MIL-STD-348A	MIL-STD-348A
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range

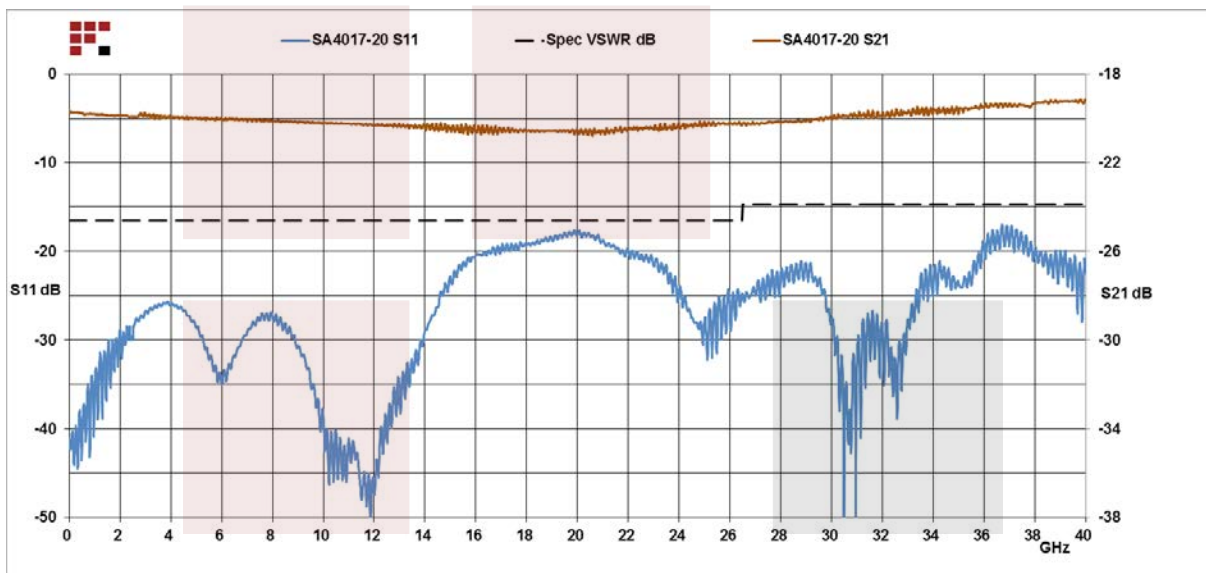
-55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



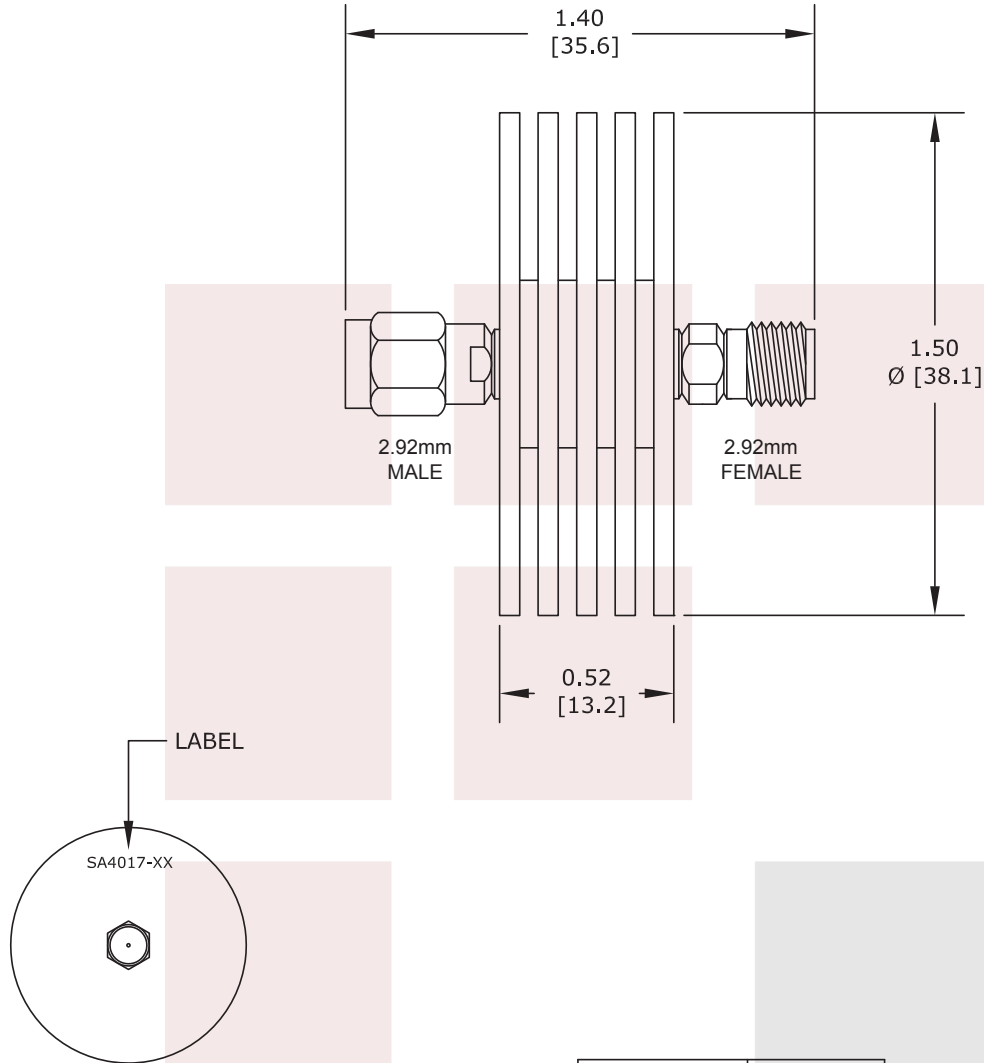
20 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 5 Watts With Black Aluminum Heatsink Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 5 Watts With Black Aluminum Heatsink Body SA4017-20](#)

URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-2.92mm-male-2.92mm-female-5-watts-sa4017-20-p.aspx>

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STANDARD TOLERANCES	
DECIMAL	
.XX	±0.01
.XXX	±0.003

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

P/N	ATTEN.
SA4017-03	3 dB
SA4017-06	6 dB
SA4017-10	10 dB
SA4017-20	20 dB
SA4017-30	30 dB

FAIRVIEW MICROWAVE INC.		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		DWG NO SA4017		CAGE CODE 3FKR5	
TITLE 20 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 5 Watts With Black Aluminum Heatsink Body		CAD FILE 030316	SHEET	SCALE N/A	SIZE A 3045